



DoD Numbers for Traumatic Brain Injury Worldwide – Totals

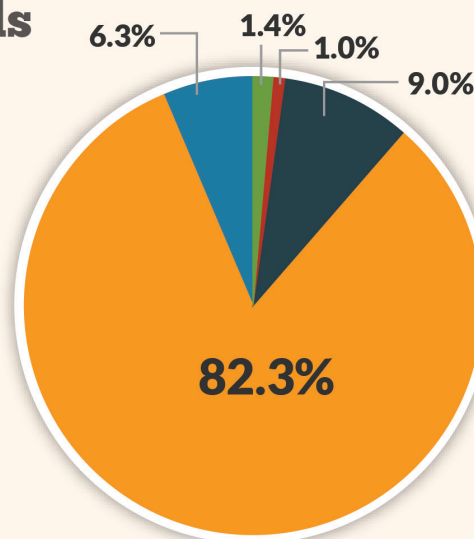
2000-2016 Q1

Penetrating	5,000
Severe	3,653
Moderate	31,202
Mild	286,255
Not Classifiable	21,852

Total - All Severities 347,962

Source: Defense Medical Surveillance System (DMSS),
Theater Medical Data Store (TMDS) provided by the
Armed Forces Health Surveillance Branch (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)



2000-2016 Q1, as of May 16, 2016

Effective October 2015, the International Classification of Diseases was updated. With the improved information, more moderate traumatic brain injuries can be counted. Previously, some cases were categorized as “unclassifiable” severity due to more limited surveillance information. Also in 2015, the Assistant Secretary of Defense clarified the TBI case definition. A subsequent review found that some of the remaining “unclassifiable” cases were likely moderate TBI. This change also will contribute to higher counts of moderate TBI surveillance cases.

Worldwide numbers represent medical diagnoses of TBI that occurred anywhere U.S. forces are located including the continental United States since 2000.

Concussion/Mild TBI is characterized by the following: Confused or disoriented state which lasts less than 24 hours; or loss of consciousness for up to 30 minutes; or memory loss lasting less than 24 hours. Excludes penetrating TBI. A CT scan is not indicated for most patients with a Mild TBI. If obtained, it is normal.

Moderate TBI is characterized by the following: Confused or disoriented state which lasts more than 24 hours; or loss of consciousness for more than 30 minutes, but less than 24 hours; or memory loss lasting greater than 24 hours but less than seven days; or meets criteria for Mild TBI except an abnormal CT scan is present. Excludes penetrating TBI. A structural brain imaging study may be normal or abnormal. **Severe TBI is characterized by the following:** Confused or disoriented state which lasts more than 24 hours; or loss of consciousness for more than 24 hours; or memory loss for more than seven days. Excludes penetrating TBI. A structural brain imaging study may be normal but usually is abnormal.

Penetrating TBI, or open head injury, is characterized by the following: A head injury in which the scalp, skull and dura mater (the outer layer of the meninges) are penetrated. Penetrating injuries can be caused by high-velocity projectiles or objects of lower velocity such as knives, or bone fragments from a skull fracture that are driven into the brain.

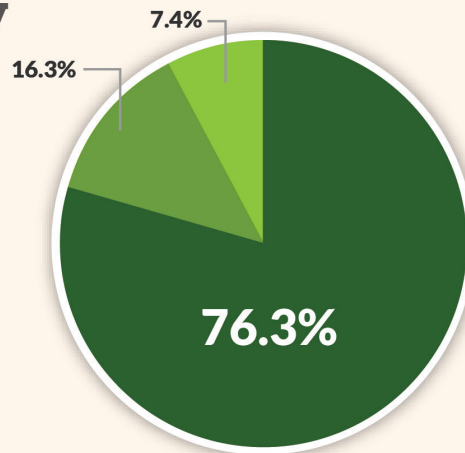


DoD Numbers for Traumatic Brain Injury Worldwide – Army

2000-2016 Q1

Active	155,186
Guard	33,088
Reserve	15,103

Total - Army 203,377



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2000-2016 Q1, as of May 16, 2016

Service	Component	Severity	Diagnosed
Army	Active	Penetrating	2,452
		Severe	1,690
		Moderate	13,171
		Mild	125,663
		Not Classifiable	12,210
	Guard	Penetrating	472
		Severe	337
		Moderate	2,627
		Mild	27,365
		Not Classifiable	2,287
	Reserve	Penetrating	159
		Severe	161
		Moderate	1,232
		Mild	12,394
		Not Classifiable	1,157

2000-2016 Q1, as of May 2016

Source: Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)
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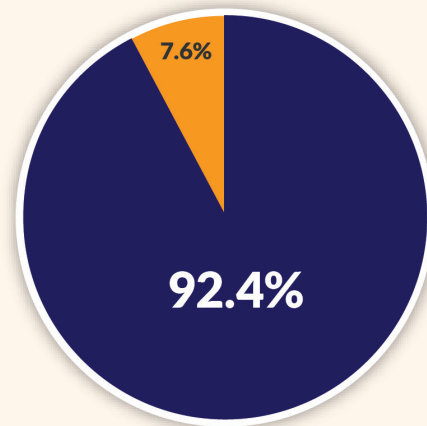


DoD Numbers for Traumatic Brain Injury Worldwide – Navy

2000-2016 Q1

Active	43,591
Reserve	3,606

Total - Navy	47,197
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2000-2016 Q1, as of May 16, 2016

Service	Component	Severity	Diagnosed
Navy	Active	Penetrating	568
		Severe	410
		Moderate	4,522
		Mild	35,794
		Not Classifiable	2,297
	Reserve	Penetrating	44
		Severe	29
		Moderate	332
		Mild	3,031
		Not Classifiable	170

2000-2016 Q1, as of May 2016

Source: Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

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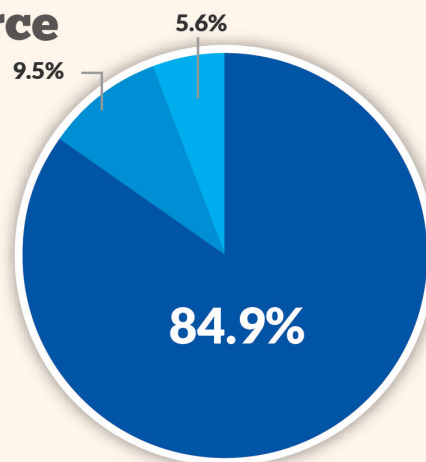


DoD Numbers for Traumatic Brain Injury Worldwide – Air Force

2000-2016 Q1

Active	40,362
Guard	4,528
Reserve	2,655

Total - Air Force 47,545



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2000-2016 Q1, as of May 16, 2016

Service	Component	Severity	Diagnosed
Air Force	Active	Penetrating	475
		Severe	368
		Moderate	3,539
		Mild	34,629
		Not Classifiable	1,351
	Guard	Penetrating	51
		Severe	31
		Moderate	375
		Mild	3,915
		Not Classifiable	156
	Reserve	Penetrating	28
		Severe	22
		Moderate	219
		Mild	2,290
		Not Classifiable	96

2000-2016 Q1, as of May 2016

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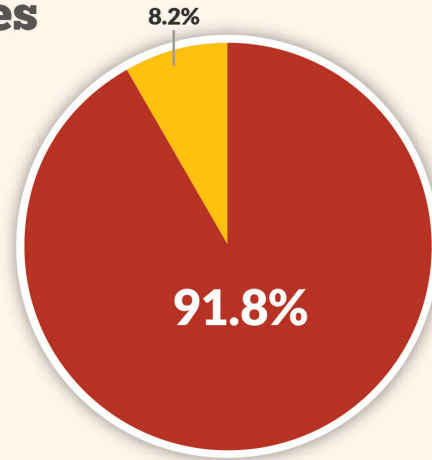


DoD Numbers for Traumatic Brain Injury Worldwide – Marines

2000-2016 Q1

Active	45,731
Reserve	4,112

Total - Marines 49,843



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2000-2016 Q1, as of May 16, 2016

Service	Component	Severity	Diagnosed
Marines	Active	Penetrating	686
		Severe	554
		Moderate	4,791
		Mild	37,770
		Not Classifiable	1,930
	Reserve	Penetrating	65
		Severe	51
		Moderate	394
		Mild	3,404
		Not Classifiable	198

2000-2016 Q1, as of May 2016

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